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EUROPEAN PATENT APPLICATION

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 AT BE CH DE ES FR GB IT LI LU NL SE
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- (51) Int CI.7: **C12N 15/12**, C12N 15/62, C07K 14/705, A61K 38/17, C12P 21/02
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- (54) Method for preparing water soluble polypeptides

(57) Methods are provided for the preparation in recombinant host cells of biologically active soluble variants of discretely encoded, heteromultimer polypeptide receptors. Such variants are synthesized by the secretion from recombinant transformants of transmem-

brane-modified heteromultimer receptors. Preferred receptors are extracellular matrix, cell surface, or plasma protein-binding receptors such as GPIIb-IIIa.

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EUROPEAN SEARCH REPORT

Application Number EP 01 12 4409

Category	Citation of document w	ith indication, where appropriate, assages		Relevan	CLASSIFICATION OF TH APPLICATION (Int.CL7)
1 1	PURIFYING THE PLA GLYCOPROTEIN IIB- Database accessio XP002191983 * abstract * & ANALYTICAL BIOC	MATION ŠERVICE, US; 1985 AL: "A METHOD FOR TELET MEMBRANE IIIA COMPLEX" n no. PREV19868104957		1,33	C12N15/12 C12N15/62 C12N15/62 C07K14/705 A61K38/17 C12P21/02
A.D F	HUMAN FIBRUNECTIN -SUBUNITS AND PLAT BIOCHEMISTRY, AMER FASTON, PA, US, vol. 26, no. 25, .5 December 1987 (1158-8165, XP00004 SSN: 0006-2960 the whole document	IN SEQUENCES OF THE AND VITRONECTIN RECEPELET GLYCOPROTEIN IIB ICAN CHEMICAL SOCIETY 1987-12-15), pages 9076	TOR	.33	TECHNICAL FIELDS SEARCHED (Int.CL7) C12N C07K A61K C12P
F J Si Mi VC 25	ROM A CDNA CLONE" DURNAL OF BIOLOGIC	OPROTEIN IIIA DERIVED AL CHEMISTRY, AMERICA AL CHEMISTS, BALTIMOR -03-25), pages 745			CIZP
	o present search report has be	en drawn up for all claims	-		
	> c/ seerch	Date of completion of the search			Examinar
	E HAGUE	7 March 2002		Smalt	1
X : particulari Y : particulari document A : technologi O : non-writer	ORY OF CITED OOCUMENTS y relevant if taken alone y relevant if combined with another of the same category cal background ndiscbaure te document	L: document cited for	te n the applic or other rea	ng the invent if published of sation isons	on on, or

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Application Number

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CLAIMS INCURRING FEES
The present European patent application comprised at the time of filing more than ten claims.
Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
No claims fees have been paid within the prescribed time limit. The present European search report habeen drawn up for the first ten claims.
ACK OF UNITY OF INVENTION
he Search Division considers that the present European patent application does not comply with the equirements of unity of invention and relates to several inventions or groups of inventions, namely:
see sheet B
All further search fees have been paid within the fixed time limit. The present European search report habeen drawn up for all claims.
As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims: 1-4, 33-36



EUROPEAN SEARCH REPORT

Application Number EP 01 12 4409

Category	Citation of document with indic of relevant passage	ation, where appropriate,	Rolevant to claim	CLASSIFICATION OF TH APPLICATION (Int.CL7)
A	COSGROVE L J ET AL: ENCODING THE CHAIN OF PLATELET GLYCOPROTEIN PROCEEDINGS OF THE NA SCIENCES OF USA, NATI SCIENCE. WASHINGTON, vol. 83, no. 3, 1 February 1986 (1986 752-756, XP000049061 ISSN: 0027-8424 * the whole document	THE OKM1, LFA-1, AND IIB-IIIA MOLECULES" TIONAL ACADEMY OF ONAL ACADEMY OF US, -02-01), pages		
1	BODARY S C ET AL: "EXPECOMBINANT PLATELET (RESULTS IN A FUNCTION/COMPLEX" JOURNAL OF BIOLOGICAL vol. 264, no. 32, 1985 XP0002191982 ISSN: 8021-9258 * the whole document *	AL FIBRINOGEN-BINDING CHEMISTRY, pages 18859-18862,		TECHNICAL FIELDS SEARCHED (Int.Cl.7)
CATI X : particu Y : particu	The precent search report has been described as search. THE HAGUE EGORY OF CITED DOCUMENTS tartly relevant if canoninad with another and of the same category.	Date of completion of the search 7 March 2002 T: theory or principle unc E: earfier patent docume after the filling date D: document cited for oth	Smalt lenying the invention but published	line.

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LACK OF UNITY OF INVENTION SHEET B

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-4,33-36

Method for preparing membrane-bound GPIIb-IIIa.

2. Claims: 5-32,37-46

Secreted multiple subunit polypeptides (MSP), complexes thereof, methods for expressing them, nucleic acids encoding them, and method for preparing them.